Test environment in SAP Cloud Platform and Deployment

So far, we have been prototyping in a local web server.



Suppose that we want to create a test environment in SAP Cloud Platform using the same database. How is it done?



In our environment, in order to connect from the local Tomcat to the Hana database in SAP Cloud Platform we used the driver provided. We had to open a tunnel to the database.



In our case, we had created the database in the trial version provided by SAP Cloud Platform, using the SYSTEM user, to which we assigned a password when creating the database.



Then, in the Data Store properties we entered these values:

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Before opening the tunnel, the database had to be started:

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To open the tunnel we needed the user ID values in the SAP Cloud Platform, and of the account, the password of that web user, host (in our case, hanatrial.ondemand.com) and database name (ID, which in this case is travelagencydb).



Now, we will upload the programs built by GeneXus for this application to the web server of the SAP Cloud Platform. They will access the database in that same platform; therefore, opening a tunnel will no longer be necessary. The database will be accessed through JNDI, and to this end Datasource Binding will be set between the application and the database used.

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To do so, we set the property "Use data source for web based applications" to True.

When doing so, this new property called "JDBC data source" is enabled. There we need to specify "java:comp/env/jdbc/DefaultDB", the way in which SAP Cloud Platform finds the database that will be associated with the application.

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We only need to run a **Build All** to have the programs built taking this datasource into account.

Next, we open the Build menu and select Deploy Application:

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First, we select the main objects we want to deploy:

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In this case, it will be the Launchpad for the web application, and the equivalent object for Smart Devices:

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Select Objects						×
Filters Pattem: Category: Main Programs		T N ~	Type: Module/Folder:	*All		• •
Name	Туре	Module	Description		Modified Date	Import Date
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2 selected object(s). Select All New]				ОК	3 matching object(s).

The latter is included because we also need to deploy the Rest services that the mobile application will use to retrieve and edit information from the database.

Now in Target we select SAP Cloud Platform...

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Target:	SAP Cloud Platform V Options Only package Deploy to SAP Cloud Platform target
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We need to configure these properties:

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Select objects to	deplay	T S A Hitter	
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Deplay Name: Genexus Web App		Application Encryption Key	B01A7C213B7448889DDE598F115C44F7
		- Java	
	Deploy	Package Format	Automatic

In Host we specify the server hired in SAP Cloud Platform. Because we're using a trial version, we enter hanatrial.ondemand.com.

Next, we need to specify the directory of SAP Cloud Platform SDK. In our case it is this:

Properties	+ ×
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Deploy Target: SAP Cloud Platform	
Host	hanatrial.ondemand.com
SDK Directory	C:\SAP_HCP_SDK
Account name	
User	
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Application Name	
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Application Encryption Key	B01A7C213B74488B9DDE598F115C44F7
∨ Java	
Package Format	Automatic

"Account name" is the name of our account in SAP Cloud Platform Cockpit. It is the same one we had used to open the tunnel:

• Properties	7 ×
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 Deploy Target: SAP Cloud Platform 	
Host	hanatrial.ondemand.com
SDK Directory	C:\SAP_HCP_SDK
Account name	p1942472780trial
User	
Password	
Application Name	
~ Security	
Application Encryption Key	B01A7C213B74488B9DDE598F115C44F7
~ Java	
Package Format	Automatic

The Username and Password are the same we used to register with SAP Cloud Platform:

SAP Cloud Platform: Log ×	▲ – □ ×
← → C	/idp/sso/accounts.sap.com
SAP Cloud Platform	Log On E-mail, ID, or User Name cfernandez@genexus.com
	Password ••••••• Log On
	Register Forgot password?

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Properties	7 ×
∑≣ Al ₩ Filter	×
> Deploy Target: SAP Cloud Platform	
Host	hanatrial.ondemand.com
SDK Directory	C:\SAP_HCP_SDK
Account name	p1942472780trial
User	cfernandez@genexus.com
Password	•••••
Application Name	
~ Security	
Application Encryption Key	B01A7C213B74488B9DDE598F115C44F7
~ Java	
Package Format	Automatic

Lastly, Application Name will be the name used to deploy the app in SAP Cloud Platform.

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v Deploy Target: SAP Cloud Platform						
Host	hanatrial.ondemand.com					
SDK Directory	C:\SAP_HCP_SDK					
Account name	p1942472780trial					
User	cfernandez@genexus.com					
Password	•••••					
Application Name	TravelAgency					
✓ Security						
Application Encryption Key	B01A7C213B74488B9DDE598F115C44F7					
✓ Java						
Package Format	Automatic					

We click on the Deploy button to have the WAR package built, uploaded and deployed on SAP Cloud Platform.

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Add	deploy Image: Web Panel Image: FioriBaseObjects.FioriLaunchpad Image: Web Panel <
Target:	SAP Cloud Platform V Options Only package
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Display Name:	Genexus Web App
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A process success message should be displayed in the output window.

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We return to our account in SAP Cloud Platform Cockpit, and among the Java Applications we find the one we've just uploaded, which is stopped:

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Before starting it, we must establish a "binding" between this application and the database in order to join them. (Remember that a tunnel will no longer be necessary).

We open Databases & Schemas and select our database. As we can see, it has 0 bindings...

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In Data Source Bindings we add one for the app we've just deployed:







We return to the Java Applications, select the application and click on Start:

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When it is completed, the application base URL is displayed:

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We need to add: space bar, servlet, Space bar... the Java package name we find among the properties of the Java generator:



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\sim	G	enerator: Default (Java)			^
	N	ame	Default		
	U	ser Interface	Web		
	~	General			
		Use Native Soap	No		
		Generate OpenAPI interface	No		
V G N U		Java package name	com.travelagency		
		Use decimal arithmetic	Yes		
		∨ Java specific			
		SMTP server (for mail functions)			
♥		Log JDBC Activity	No		
	\sim	Services			
		 Storage configuration 			
		Storage Provider	Local		

Period... the name of the module in which the main object is located, FioriBaseObjects, period, the name of the main object, which in this case is "Fiorilaunchpad":

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ly Home			
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The application is now running on SAP Cloud Platform, accessing the same database that we've been working with.

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Id Name 1 Brazil 3 Chima 4 UPDATE 5 Mexico
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1 Brazil UPDATE 0 3 China UPDATE 0 2 France UPDATE 0 5 Mexico UPDATE 0
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5 Mexico UPDATE D
4 United States UPDATE D
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What about the mobile application?

In the deployment we had included the Menu for Smart Devices object. We did this only to install, in addition of the web application that will be used by the user, the Rest services that the mobile application will have to use every time it requests data from the database or makes an update.



The compilation of this menu is automatically obtained every time we select Run (in Android it is a file of apk extension, and in iOS it is of ipa extension).

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GeneXus



Next, it will later have to follow the process to be uploaded to the corresponding store (it must be authorized by Google or Apple), or, if we don't want to make it publicly available, to be distributed only to the company's mobile devices, for example. To read about the various steps required for deployment and publication in the stores, view our specific course for Smart Devices.



Apart from that, we still need to make the programs in that compiled file that will be installed on the devices point to the rest services in the SAP Cloud Platform server.

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In our prototype model, since the server was the local Tomcat, the service URL was:

0	Properties		4	×
> >	Al 🏹 Filter			\times
\sim	Generator: SmartDevices (Smar	t Devices)		^
	Name	SmartDevices		
	Generate Android	True		
	Generate iOS	True		
	Main Platform	Android		
	Services URL	http://localhost:8080/TravelAgency_JavaEnvironment/servlet/		
	Smart Devices Cache Managemer	On		
	v Android Specific			
	Android SDK directory	C:\Android-SDK		
	JDK Directory	C:\Program Files\Java\jdk1.8.0_121		
	Multidex Build	False		
	Gradle Options	daemonparallel -Dorg.gradle.jvmargs=-Xmx2048m		
	Application Signing			

We need to change this URL to make it the web server URL in SAP Cloud Platform (we obtained it in the deployment):

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Properties	.	×
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 Generator: SmartDevices (Smart Devi 	ces)	^
Name	SmartDevices	
Generate Android	Тгие	
Generate iOS	Тгие	
Main Platform	Android	
Services URL	https://travelagencyp1942472780trial.hanatrial.ondemand.com/travelagency/servlet/	
Smart Devices Cache Management	On	
Smart Devices Cache Management On V Android Specific Image: Comparison of the second		
Android SDK directory	C:\Android-SDK	
Main Platform Services URL Smart Devices Cache Management Android Specific Android SDK directory JDK Directory Multidex Build	C:\Program Files\Java\jdk1.8.0_121	
Multidex Build	False	+ × servlet/ -
Gradle Options	daemonparallel -Dorg.gradle.jvmargs=-Xmx2048m	

We compile the main object again to regenerate the programs, now pointing to the Rest services in the SAP Cloud Platform server.

(By selecting Build if we only want to compile, or Run if we also want to run in the emulator or in the device connected to the computer).

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Look at the list of countries.

We insert a new country in SAP Cloud Platform: Japan:

And we look at the list of countries:

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Work With Country	۹	+
Brazil		
China		
France		
Japan		
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United States		

And in the Web app:

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Brazil	UPDATE	DELETE	
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France	UPDATE	DELETE	
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Mexico	UPDATE	DELETE	
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Now the question is: what happens when we want to deploy?



Obviously, the production database will not be the same as the test database.

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Among other things, because once the application is deployed, we will continue to work on it, both to make changes to what has been implemented and to incorporate new features. This prototyping stage must not take place in the production environment.

Therefore, instead of changing the environment we had (which we had used for prototyping), for deployment we should create a new environment:

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...create the database schema of the production database in the SAP Cloud Platform just like we did the first time (to run in the environment created by default with the KB). Since we're using the trial version for this demo, which only accepts one database per user, we will have to use another user, and do everything exactly as we did before. That is to say, create the database:

And open the tunnel with the new data... we do exactly the same as before...

Lastly, we run a **Build All**, which will prompt us to reorganize the database to create all the tables, which don't exist yet in this new database.

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Once this step has been completed, you will do everything we've seen before (change the property "Use data source for web based applications", and so on).



In sum, this is how easily we can deploy an application in SAP Cloud Platform.

age.

